

**MEJÍA, Jaime Francisco**

BEng (Env) G.U., M HSc (Env) QUT

**Thesis Title:**

Long-term trends in fine particle number concentrations in the urban atmosphere of Brisbane”: the relevance of traffic emissions and new particle formation

**Supervisors:**

Prof. Lidia Morawska (Principal)

Prof. Kerrie Mengersen (Associate)

**Citation:**

The thesis investigated long-term variation in the number of extremely small particles, known as “ultrafine particles”, in the urban atmosphere of Brisbane. Dr. Mejía analysed the influence of traffic and the local atmospheric processes on ultrafine particle levels by: (i) examining the long-term changes in the number concentration of these particles, (ii) comparing their number size distribution spectra at several locations in Brisbane and (iii) investigating the atmospheric conditions that favour new particle formation in the area.